
NPI Substance List

Alphabetically-ordered reporting list of substances for the NPI

(determined by consideration of health and environmental risks in Australia).

1. In this Schedule:

- (a) the threshold for Category 1 acids refers to the amount of the acid compound used (for example, in the case of "Hydrochloric acid", the threshold refers to the amount of hydrogen chloride used). This amount can be calculated as a factor of volume and concentration;
- (b) the thresholds for "Total Nitrogen" and "Total Phosphorus" refer only to the amounts of those Nitrogen and Phosphorus compounds that are, or give rise to, nitrate/nitrite and phosphate ions respectively;
- (c) the threshold for "Ammonia (total)" refers to the total amount of both ammonia (NH_3 CASR number 7664-41-7) and the ammonium ion (NH_4^+) in solution;
- (d) the threshold for "Chlorine" includes the amount of hypochlorite and like substances used;
- (e) the threshold for Category 1 substances that are listed as "(a metal) & compounds" refers to the total amount of the metal and its compounds used (for example, "Lead & compounds" refers to Lead and all compounds which incorporate Lead);
- (f) the threshold for "Phenol" (CASR number 108-95-2) refers, at the discretion of the reporting facility, to either the total amount of phenolic compounds used or the total amount of phenol used.

2. For the purposes of estimating emission data to be reported under clause 9 of the Measure:

- (a) the amount of a Category 1 acid emitted refers to the amount of the actual acid compound emitted (for example, in the case of "Hydrochloric acid", the amount emitted refers to the amount of hydrogen chloride emitted). It does not include any amounts of the acid that have been neutralised before release as the acid no longer exists;
- (b) the amounts of "total Nitrogen" and "total Phosphorus" emitted refer to the amounts of those Nitrogen and Phosphorus compounds emitted that give rise to nitrate/nitrite and phosphate ions respectively;
- (c) the amount of "Ammonia (total)" emitted refers to the total amount of both Ammonia (NH_3 CASR number 7664-41-7) and the ammonium ion (NH_4^+) emitted in solution;
- (d) the amount of "Chlorine" emitted refers only to the amount chlorine (Cl CASR number 7782- 50-5) emitted;
- (e) the amount emitted in relation to a substance listed as "(a metal) & compounds" refers only to the amount of the metal emitted (for example, the amount of "Lead & compounds" emitted refers only to the amount of Lead emitted);
- (f) the amount of "Phenol" (CASR number 108-95-2) emitted refers, at the discretion of the reporting facility, to either the total amount of phenolic compounds emitted or the total amount of Phenol emitted;
- (g) the amount of "Total Volatile Organic Compounds" emitted refers to the total amount emitted of any chemical compounds based on carbon chains or rings (and also

containing hydrogen) with a vapour pressure greater than 2mm of mercury (0.27kPa) at 25 degrees Celsius, excluding methane;

(h) the amount of "Polycyclic aromatic hydrocarbons" emitted refers to the total emissions of any of the 16 US EPA priority PAHs: acenaphthene, anthracene, acenaphthylene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, chrysene, dibenz(ah)anthracene, fluoranthene, fluorene, indeno(123-cd)pyrene, naphthalene, phenanthrene, and pyrene.

Table 1: NPI substance reporting list for up to and including 2000/2001

prefix	COLUMN 1 SUBSTANCE	COLUMN 2 CASR No.	COLUMN 3 THRESHOLD CATEGORY	COLUMN 4 THRESHOLD
	Acetone	67-64-1	1	10 tonnes per year
	Arsenic & compounds	7440-38-2	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Benzene	71-43-2	1	10 tonnes per year
1,3-	Butadiene (vinyl ethylene)	106-99-0	1	10 tonnes per year
	Cadmium & compounds	7440-43-9	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Carbon monoxide	630-08-0	1	10 tonnes per year
			2a	400 tonnes per year, or 1 tonne per hour
	Chromium (VI) compounds	7440-47-3	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Cobalt & compounds	7440-48-4	1	10 tonnes per year
	Cyanide (inorganic) compounds	N/A	1	10 tonnes per year
1,2-	Dibromoethane	106-93-4	1	10 tonnes per year
	Dichloromethane	75-09-2	1	10 tonnes per year
2-	Ethoxyethanol	110-80-5	1	10 tonnes per year
2-	Ethoxyethanol acetate	111-15-9	1	10 tonnes per year
	Ethylene glycol (1,2-ethanediol)	107-21-1	1	10 tonnes per year
	Fluoride compounds	N/A	1	10 tonnes per year
			2a	400 tonnes per year, or 1 tonne per hour
	Glutaraldehyde	111-30-8	1	10 tonnes per year

prefix	COLUMN 1 SUBSTANCE	COLUMN 2 CASR No.	COLUMN 3 THRESHOLD CATEGORY	COLUMN 4 THRESHOLD
	Lead & compounds	7439-92-1	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Mercury & compounds	7439-97-6	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Methanol	67-56-1	1	10 tonnes per year
	Methyl ethyl ketone	78-93-3	1	10 tonnes per year
	Methyl isobutyl ketone	108-10-1	1	10 tonnes per year
	Methyl methacrylate	80-62-6	1	10 tonnes per year
	Nickel carbonyl	13463-39-3	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Nickel subsulfide	12035-72-2	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Oxides of Nitrogen	N/A	2a	400 tonnes per year, or 1 tonne per hour
	Particulate Matter ≤10.0 um (PM ₁₀)	N/A	2a	400 tonnes per year, or 1 tonne per hour
	Polycyclic aromatic hydrocarbons	N/A	2a	400 tonnes per year, or 1 tonne per hour
	Sulfur dioxide	7446-09-5	1	10 tonnes per year
			2a	400 tonnes per year, or 1 tonne per hour
	Sulfuric acid	7664-93-9	1	10 tonnes per year
	Tetrachloroethylene	127-18-4	1	10 tonnes per year
	Toluene (methylbenzene)	108-88-3	1	10 tonnes per year
	Toluene-2,4-diisocyanate	584-84-9	1	10 tonnes per year
	Total Nitrogen	N/A	3	15 tonnes per year
	Total Phosphorus	N/A	3	3 tonnes per year
	Trichloroethylene	79-01-6	1	10 tonnes per year
	Xylenes (individual or mixed isomers)	1330-20-7	1	10 tonnes per year

Table 2: NPI substance reporting list from 2001/2002

prefix	COLUMN 1 SUBSTANCE	COLUMN 2 CASR No.	COLUMN 3 THRESHOLD CATEGORY	COLUMN 4 THRESHOLD
	Acetaldehyde	75-07-0	1	10 tonnes per year
	Acetic acid (ethanoic acid)	64-19-7	1	10 tonnes per year
	Acetone	67-64-1	1	10 tonnes per year
	Acetonitrile	75-05-8	1	10 tonnes per year
	Acrylamide	79-06-1	1	10 tonnes per year
	Acrylic acid	79-10-7	1	10 tonnes per year
	Acrylonitrile (2-propenenitrile)	107-13-1	1	10 tonnes per year
	Ammonia (total)	N/A	1	10 tonnes per year
	Aniline (benzenamine)	62-53-3	1	10 tonnes per year
	Antimony & compounds	7440-36-0	1	10 tonnes per year
	Arsenic & compounds	7440-38-2	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Benzene	71-43-2	1	10 tonnes per year
	Benzene hexachloro- (HCB)	118-74-1	1	10 tonnes per year
	Beryllium & compounds	7440-41-7	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Biphenyl (1,1-biphenyl)	92-52-4	1	10 tonnes per year
	Boron & compounds	7440-42-8	1	10 tonnes per year
1,3-	Butadiene (vinyl ethylene)	106-99-0	1	10 tonnes per year
	Cadmium & compounds	7440-43-9	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Carbon disulfide	75-15-0	1	10 tonnes per year
	Carbon monoxide	630-08-0	1	10 tonnes per year
			2a	400 tonnes per year, or 1 tonne per hour
	Chlorine	7782-50-5	1	10 tonnes per year
	Chlorine dioxide	10049-04-4	1	10 tonnes per year
	Chloroethane (ethyl chloride)	75-00-3	1	10 tonnes per year
	Chloroform (trichloromethane)	67-66-3	1	10 tonnes per year
	Chlorophenols (di, tri, tetra)	N/A	1	10 tonnes per year
	Chromium (III) compounds	7440-47-3	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts

	COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4
prefix	SUBSTANCE	CASR No.	THRESHOLD CATEGORY	THRESHOLD
	Chromium (VI) compounds	7440-47-3	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Cobalt & compounds	7440-48-4	1	10 tonnes per year
	Copper & compounds	7440-50-8	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Cumene (1-methylethylbenzene)	98-82-8	1	10 tonnes per year
	Cyanide (inorganic) compounds	N/A	1	10 tonnes per year
	Cyclohexane	110-82-7	1	10 tonnes per year
1,2-	Dibromoethane	106-93-4	1	10 tonnes per year
	Dibutyl phthalate	84-74-2	1	10 tonnes per year
1,2-	Dichloroethane	107-06-2	1	10 tonnes per year
	Dichloromethane	75-09-2	1	10 tonnes per year
	Ethanol	64-17-5	1	10 tonnes per year
2-	Ethoxyethanol	110-80-5	1	10 tonnes per year
2-	Ethoxyethanol acetate	111-15-9	1	10 tonnes per year
	Ethyl acetate	141-78-6	1	10 tonnes per year
	Ethyl butyl ketone	106-35-4	1	10 tonnes per year
	Ethylbenzene	100-41-4	1	10 tonnes per year
	Ethylene glycol (1,2-ethanediol)	107-21-1	1	10 tonnes per year
	Ethylene oxide	75-21-8	1	10 tonnes per year
	Di-(2-Ethylhexyl) phthalate (DEHP)	117-81-7	1	10 tonnes per year
	Fluoride compounds	N/A	1	10 tonnes per year
			2a	400 tonnes per year, or 1 tonne per hour
	Formaldehyde (methyl aldehyde)	50-00-0	1	10 tonnes per year
	Glutaraldehyde	111-30-8	1	10 tonnes per year
n-	Hexane	110-54-3	1	10 tonnes per year
	Hydrochloric acid	7647-01-0	1	10 tonnes per year
			2a	400 tonnes per year, or 1 tonne per hour
	Hydrogen sulfide	7783-06-4	1	10 tonnes per year
	Lead & compounds	7439-92-1	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Magnesium oxide fume	1309-48-4	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Manganese & compounds	7439-96-5	1	10 tonnes per year

prefix	COLUMN 1 SUBSTANCE	COLUMN 2 CASR No.	COLUMN 3 THRESHOLD CATEGORY	COLUMN 4 THRESHOLD
	Mercury & compounds	7439-97-6	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Methanol	67-56-1	1	10 tonnes per year
2-	Methoxyethanol	109-86-4	1	10 tonnes per year
2-	Methoxyethanol acetate	110-49-6	1	10 tonnes per year
	Methyl ethyl ketone	78-93-3	1	10 tonnes per year
	Methyl isobutyl ketone	108-10-1	1	10 tonnes per year
	Methyl methacrylate	80-62-6	1	10 tonnes per year
4,4-	Methylene bis (2-chloroaniline) (MOCA)	101-14-4	1	10 tonnes per year
	Methylene bis (phenylisocyanate)	101-68-8	1	10 tonnes per year
	Nickel & compounds	7440-02-0	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Nickel carbonyl	13463-39-3	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Nickel subsulfide	12035-72-2	1	10 tonnes per year
			2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Nitric acid	7697-37-2	1	10 tonnes per year
	Organo-tin compounds	N/A	1	10 tonnes per year
	Oxides of Nitrogen	N/A	2a	400 tonnes per year, or 1 tonne per hour
	Particulate Matter ≤10.0 um (PM ₁₀)	N/A	2a	400 tonnes per year, or 1 tonne per hour
	Phenol	108-95-2	1	10 tonnes per year
	Phosphoric acid	7664-38-2	1	10 tonnes per year
	Polychlorinated dioxins and furans	N/A	2b	2,000 tonnes per year, or or 60,000 megawatt hours, or rated at 20 megawatts
	Polycyclic aromatic hydrocarbons	N/A	2a	400 tonnes per year, or 1 tonne per hour
	Selenium & compounds	7782-49-2	1	10 tonnes per year
	Styrene (ethenylbenzene)	100-42-5	1	10 tonnes per year
	Sulfur dioxide	7446-09-5	1	10 tonnes per year
			2a	400 tonnes per year, or 1 tonne per hour
	Sulfuric acid	7664-93-9	1	10 tonnes per year
1,1,1,2-	Tetrachloroethane	630-20-6	1	10 tonnes per year
	Tetrachloroethylene	127-18-4	1	10 tonnes per year

	COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4
prefix	SUBSTANCE	CASR No.	THRESHOLD CATEGORY	THRESHOLD
	Toluene (methylbenzene)	108-88-3	1	10 tonnes per year
	Toluene-2,4-diisocyanate	584-84-9	1	10 tonnes per year
	Total Nitrogen	N/A	3	15 tonnes per year
	Total Phosphorus	N/A	3	3 tonnes per year
	Total Volatile Organic Compounds	N/A	1a	25 tonnes per year, or a design capacity of 25 kilotonnes for bulk storage facilities
			2a	400 tonnes per year, or 1 tonne per hour
1,1,2-	Trichloroethane	79-00-5	1	10 tonnes per year
	Trichloroethylene	79-01-6	1	10 tonnes per year
	Vinyl Chloride Monomer	75-01-4	1	10 tonnes per year
	Xylenes (individual or mixed isomers)	1330-20-7	1	10 tonnes per year
	Zinc and compounds	7440-66-6	1	10 tonnes per year